

TOSHIBA



Color Television

32AX60/36AX60

Owner's Manual

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Toshiba

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your TV

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SAFETY PRECAUTIONS

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.



The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.

CAUTIONS

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLET UNLESS THE PRONGS CAN BE FULLY INSERTED INTO THE OUTLET TO PREVENT ANY EXPOSURE OF THE PRONGS ON THE POLARIZED PLUG.

PRECAUCIONES

PARA EVITAR DESCARGAS ELÉCTRICAS, NO UTILICE ESTE ENCHUFE POLARIZADO CON UN RECEPTÁCULO DE CABLE DE EXTENSIÓN U OTRA TOMA SALVO QUE LA CLAVIJA ESTÉ COMPLETAMENTE INSERTADA EN LA TOMA PARA EVITAR CUALQUIER EXPOSICIÓN DE LOS VÁSTAGOS DEL ENCHUFE POLARIZADO.

WARNING

To avoid personal injury:

- Do not stand or climb on the TV.
- Do not put a VCR or any heavy object on top of the TV.

ADVERTENCIA

Para evitar daños personales:

- No se ponga de pie en el TV ni suba a él.
- No coloque el video (p. ej. VCR) ni otro objeto pesado en la parte superior del TV.

Avoid displaying stationary images on your TV screen for extended periods of time. Stationary patterns generated by a picture-in-picture (PIP) display, computer displays, video games, stock market reports, etc., can become permanently engrained on the picture tube. This damage is not protected by your warranty because it is the result of misuse. If you wish to use your TV to display still images, reduce brightness and contrast settings. Never leave a PIP, computer, or video game display unattended.

This TV set should be used with the Toshiba stand listed on page 33. Use with other stands may result in instability, causing possible injury.

Note to CATV system installers in the USA

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding, and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

IMPORTANT SAFETY INSTRUCTIONS

INSTRUCCIONES DE SEGURIDAD

CAUTION

PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS CONTAINED IN THIS SECTION AND THOSE ON YOUR TV SET.

RETAIN THIS SECTION FOR REFERENCE.

PRECAUCIÓN

LEA Y TENGA EN CUENTA TODAS LAS ADVERTENCIAS E INSTRUCCIONES QUE SE ENCUENTRAN EN ESTE PANFLETO Y LAS DE LOS APARATOS DE TELEVISIÓN.

MANTENGA ESTE PANFLETO PARA FUTURAS REFERENCIAS.

Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. However, improper use can result in potential electrical shock or fire hazards. In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for antenna/TV installation, use and servicing.

Do not remove the cabinet cover. This may expose you to dangerous voltages. Refer all servicing to qualified service personnel.

La energía eléctrica puede realizar funciones muy útiles. Este televisor ha sido diseñado y fabricado para asegurar su seguridad personal. Sin embargo, la utilización inadecuada del mismo puede resultar en descargas eléctricas o en el riesgo de incendios. Para no anular las protecciones incorporadas en este televisor, tenga en cuenta las reglas básicas de instalación de la antena/televisor, y en caso de problemas póngase en contacto con un centro de reparaciones.

No extraiga de la cubierta de la caja. Esto podría dejarle expuesto a tensiones peligrosas. En caso de avería, consulte los servicios de personal cualificado.

INSTALLATION / INSTALACIÓN

Power Sources — The TV set should be operated only from the type of power source indicated on the TV set or as indicated in the Owner's Manual. If you are not sure of the type of power supply in your home, consult your sales person or your local power company. For TV sets designed to operate from battery power, refer to the operating instructions.

Fuentes de alimentación — Este televisor solamente deberá alimentarse con la fuente de alimentación indicada en la etiqueta de características. Si no está seguro del tipo de fuente de alimentación de su hogar, consulte al proveedor de su televisor o a la compañía eléctrica local. Para productos destinados a alimentarse con pilas, u otras fuentes, consulte las instrucciones de operación.

Grounding or Polarization — The TV set is equipped with one of the following type plugs. If the plug should fail to fit the power outlet, contact your electrician to replace your obsolete outlet. DO NOT defeat the safety purpose of the type plug on the TV set.

Puesta a tierra o polarización — Este televisor puede poseer un enchufe de los tipos siguientes. Si el enchufe no entra en la toma de la red, póngase en contacto con un electricista para que le cambie la toma anticuada. NO anule el fin de seguridad de este tipo de enchufe del televisor.

A polarized alternating current line plug — having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug into the outlet, try reversing the plug.

Un enchufe de línea de corriente alterna polarizado — posee una cuchilla más ancha que la otra. Este enchufe entrará en la toma de la red de una sola forma. Si no puede insertar el enchufe en la toma de la red, trate de invertirlo.

Alternate Warnings — A three-wire grounding-type plug — a plug having a third (grounding) pin. This plug will only fit into grounding-type power outlet.

Advertencias alternativas — Enchufe de tipo puesta a tierra de tres conductores — enchufe que posee un tercer terminal (de puesta a tierra). Este enchufe solamente encajará en una toma de la red de tipo puesta a tierra.

Water and Moisture — Do not use the TV set near water — for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

Agua y humedad — No utilice el televisor cerca del agua — por ejemplo, cerca de una bañera, un lavabo, un fregadero, una lavadora, en un sótano húmedo, cerca de una piscina, ni lugares por el estilo.

Ventilation — The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. Never block or cover these slots and openings to ensure reliable operation of the TV set and to protect it from overheating.

Ventilación — Las ranuras y aberturas de la caja y de la parte posterior o de la base son para proporcionar la ventilación necesaria. Para asegurar la operación fiable del televisor para protegerlo contra el recalentamiento. No bloquee ni cubra nunca estas ranuras y aberturas.

- a. Never cover the slots and openings with a cloth or other materials.
- a. No cubra nunca las ranuras ni las aberturas con paños ni otros materiales.
- b. Never block the slots and openings by placing the TV set on a bed, sofa, rug or other similar surface.
- b. No bloquee nunca las ranuras ni las aberturas colocando el televisor sobre una cama, un sofá, una alfombra, ni demás superficies similares.
- c. Never place the TV set in a confined space such as a bookcase, built-in cabinet, or any other place of poor ventilation.
- c. No coloque nunca el televisor en un espacio cubierto, como una librería o un estante empotrados, ni en un lugar de mala ventilación.

Heat — Do not place the TV set near or over a radiator or heat register, or where it is exposed to direct sunlight.

Calor — No coloque el televisor cerca ni sobre un radiador ni un registro de calor, ni expuesto a la luz solar directa.

Power-Cord Protection — Do not allow anything to rest on or roll over the power cord, and do not place the TV set where the power cord is subject to wear or abuse.

Protección del cable de alimentación — No coloque ni pase sobre el cable de alimentación, ni coloque el televisor donde su cable de alimentación pueda sufrir cualquier tipo de daños.

Accessories — Do not place the TV set on an unstable cart, stand, tripod, bracket, or table. The TV set may fall, causing serious injury to a child or adult, and serious damage to the TV set. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV set, and should use a mounting accessory recommended by the manufacturer.

Accesorios — No coloque el televisor sobre un carrito, una base, un trípode, un soporte ni una mesa inestable. El televisor podría caerse, causando serios daños a niños o adultos, o al propio televisor. Utilice solamente el carrito, la base, el trípode, el soporte, o la mesa que recomiende el fabricante, o que se venda con el televisor, y utilice un accesorio de montaje recomendado por el fabricante.

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

La combinación de un producto y un carrito deberá moverse con cuidado. Las paradas repentinas, la fuerza excesiva, y las superficies desiguales pondrían hacer que volcase la combinación del carrito y del producto.



USE / UTILIZACIÓN

Overloading — Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

Sobrecarga — No sobrecargue las tomas de la red, los cables prolongadores, ni los adaptadores para múltiples tomas, ya que esto supondría el riesgo de incendios o de descargas eléctricas.

During lightning storms, or when the TV set will be left unattended and unused for a long period of time, unplug the power cord from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV set due to lightning and power-line surges.

Durante tormentas eléctricas, o cuando no vaya a utilizar el televisor durante mucho tiempo, desenchufe el cable de alimentación de la toma de la red y desconecte la antena o el sistema de cablevisión. Esto evitará que se dañe el televisor debido a rayos y a sobretensiones repentinas en la red.

Object and Liquid Entry — Never push objects of any kind into the TV set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV set.

Entrada de objetos y líquidos — No introduzca nunca objetos de ningún tipo en este televisor a través de las aberturas, ya que podrían tocar puntos de tensión peligrosa o cortocircuitar piezas, lo que podría resultar en incendio o descarga eléctrica. No vierta nunca líquidos de ningún tipo sobre este televisor.

Cleaning — Unplug the TV set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the TV set.

Limpieza — Desenchufe el televisor de la toma de la red antes de limpiarlo. No utilice limpiadores líquidos ni aerosoles. Para limpiar el exterior del televisor, utilice un paño ligeramente humedecido en agua.

Attachments — Never add accessories that have not been specifically designed for the TV set. Never remodel the TV set by yourself as this can result in a fire hazard or electric shock.

Aditamentos — No utilice aditamentos no recomendados por el fabricante del televisor, ya que podrían suponer un peligro. No remodele nunca el televisor usted mismo, ya que esto podría causar el riesgo de incendios o descargas eléctricas.

If a snapping or popping sound from a TV set is heard continuously or frequently while the TV set is operated, unplug the TV set and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.

Si se oye un sonido seco de un televisor continuo o frecuente mientras el televisor esté funcionando, desenchúfelo y consulte a su proveedor o a un técnico de servicio. Es normal que algunos televisores produzcan sonidos secos, particularmente cuando conecte o desconecte su alimentación.

SERVICE / SERVICIO DE REPARACIÓN

Damage Requiring Service — Unplug the TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

Daños que requieren el servicio de reparación — En los casos siguientes, desenchufe el televisor de la toma de la red y solicite los servicios de personal de reparación especializado:

- When the power cord or plug is damaged or frayed.
a. Cuando se haya dañado el cable de alimentación o el enchufe.
- When liquid has been spilled into the TV set.
b. Cuando se haya vertido líquido dentro del televisor.
- When the TV set has been exposed to rain or water.
c. Cuando el televisor haya estado expuesto a la lluvia o al agua.
- When the TV set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
d. Cuando el televisor haya estado expuesto a golpes excesivos o haya caído, o su caja se haya dañado.
- When the TV set does not operate normally even though you follow the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
e. Cuando el televisor no funcione normalmente incluso al seguir las instrucciones de operación. Ajuste solamente los controles indicados en las instrucciones de operación, ya que un ajuste inadecuado de otros controles podría resultar en daños y a menudo requerirán un trabajo difícil por un técnico cualificado para devolver el televisor a su funcionamiento normal.

When the TV set exhibits a distinct change in performance. This indicates a need for service.

Cuando el funcionamiento del televisor haya cambiado notablemente — esto indica la necesidad del servicio de reparación.

Servicing — Do not attempt to service the TV set yourself. To open or remove the covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Reparación — No intente nunca reparar el televisor por sí mismo. La apertura o extracción de cubiertas podría exponerle a tensiones peligrosas u otros peligros. En caso de avería solicite los servicios de personal de reparación cualificado.

Replacement Parts — When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Reemplazo de piezas — Cuando sea necesario reemplazar piezas, cerciórese de que el técnico de reparación utilice las piezas de reemplazo especificadas por el fabricante u otras que posean las mismas características que las originales. Las substituciones no autorizadas podrían resultar en incendios, descargas eléctricas, u otros peligros.

Safety Check — Upon completion of any service or repairs to the TV set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the TV set is in safe operating condition, and to so certify.

Comprobación de seguridad — Al finalizar cualquier reparación de este televisor, solicite al técnico de reparación que realice las comprobaciones de seguridad (especificadas por el fabricante) para determinar y certificar si el producto se encuentra en las condiciones de operación apropiadas.

When the TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

Cuando el televisor llegue al final de su vida útil, si se deshace de él de forma inapropiada, el tubo de imagen puede explotar. Cuando desee deshacerse de un televisor, solicite este servicio a un técnico de reparación especializado.

ANTENNA / ANTENA

Outdoor Antenna Grounding — If an outdoor antenna is installed, follow the precautions below.

An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

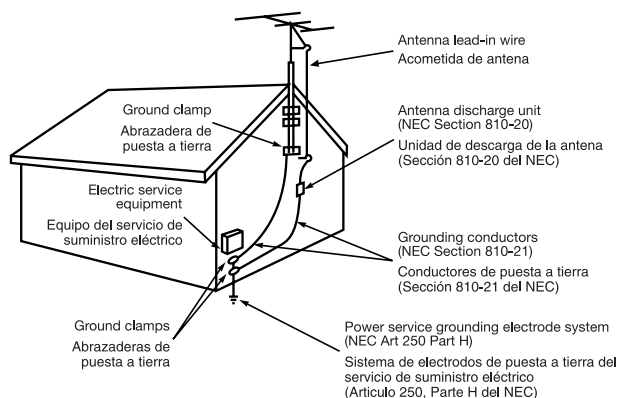
Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code in the USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Puesta a tierra de la antena exterior — Cuando instale una antena exterior, tenga en cuenta las precauciones siguientes.

Un sistema de antena exterior no deberá colocarse cerca de líneas de alta tensión ni otros circuitos de iluminación o alimentación, ni donde pueda entrar en contacto con tales líneas o circuitos.

CUANDO INSTALE UN SISTEMA DE ANTENA EXTERIOR, TENGA EXTREMADO CUIDADO PARA EVITAR QUE ENTRE EN CONTACTO CON TALES LÍNEAS DE ALIMENTACIÓN O CIRCUITOS, YA QUE TAL CONTACTO PODRÍA RESULTAR INVARIABLEMENTE FATAL.

Cerciórese de que el sistema de antena esté puesto a tierra a fin de que proporcione cierta protección contra sobretensiones y cargas estáticas. La Sección 810 del Código Eléctrico Nacional (NEC) de EE.UU. y la Sección 54 del Código Eléctrico Canadiense ofrecen información con respecto a la puesta a tierra adecuada de una unidad de descarga de antena, el tamaño de los conductores de puesta a tierra, la ubicación de la unidad de descarga de la antena, la conexión de los electrodos de puesta a tierra, y los requisitos de tales electrodos.



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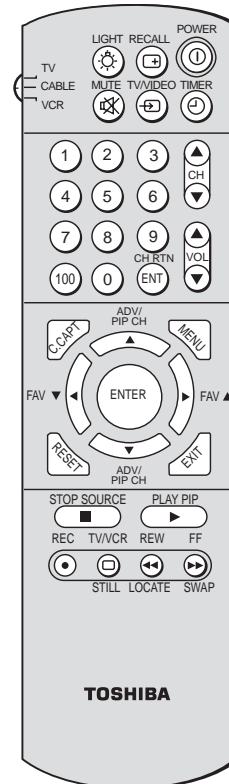
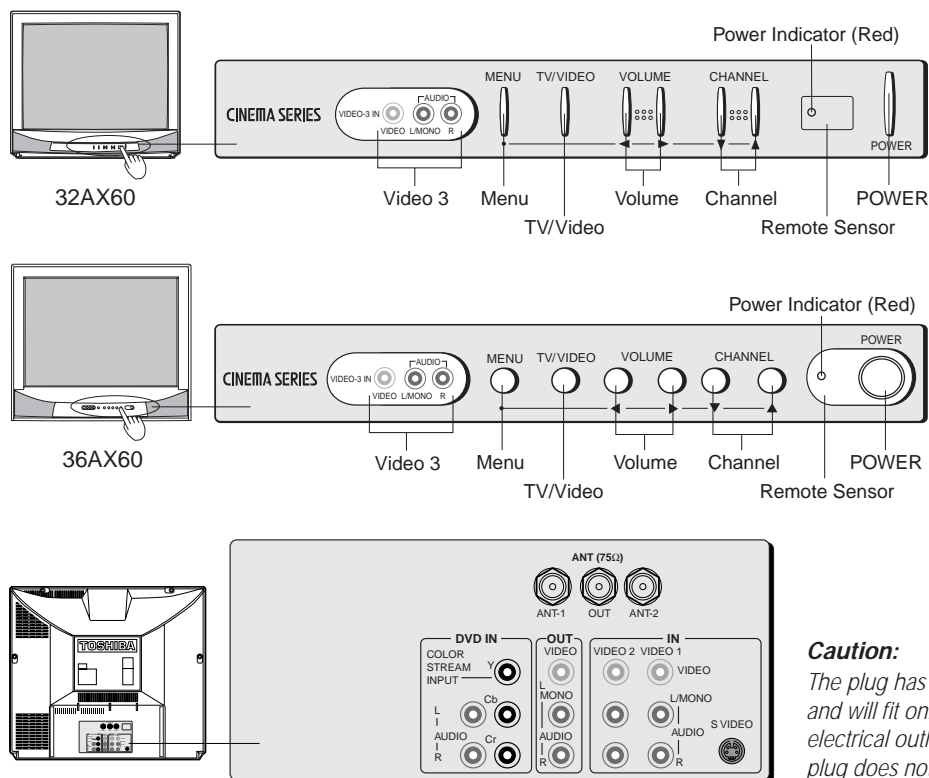
Welcome to Toshiba

Congratulations! You have purchased one of the finest color TVs on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible. Please make sure you have received the following items: TV, remote control, batteries, manual, registration card, and extended service plan literature. If you did not receive all of the items or if any of the items are damaged or broken, please contact your Toshiba dealer. In addition, you may need to purchase other audio or video cables to connect your equipment. See "Connecting your TV" on page 2 for more information.

Please read all safety and operating instructions carefully before you begin.

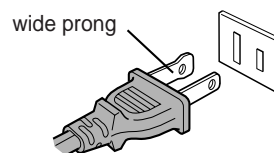
Exploring your new TV

You can operate your TV using the buttons on the front panel or the remote control. The back panel provides all the terminal connections you will need to connect other equipment to your TV.



Caution:

The plug has one prong wider than the other and will fit only one way into a standard electrical outlet (120 volt AC, 60 Hz). If the plug does not fit into the outlet, try turning it around. If the plug still does not fit, the outlet is probably non-standard and must be replaced by a qualified electrician. **Do not tamper with the plug or try to force it into a non-standard outlet.**



Selecting a location for the TV

- Place the TV on the floor or on a sturdy platform in a location where light does not directly hit the screen.
- Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which may damage the TV.

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number: _____

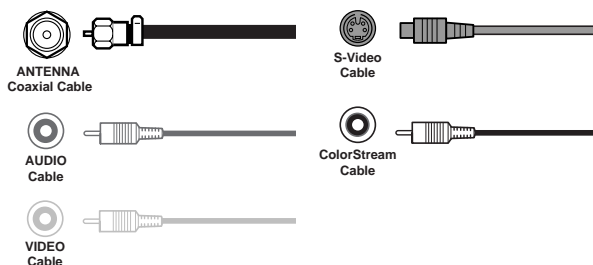
Serial number: _____

Connecting your TV

If you have not connected electronic equipment before, or you have been frustrated in the past, you may wish to read this section.

Note: Cables are not supplied.

- A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use “F” connectors.
- Audio and video cables are usually color coded according to use: yellow for video; red and white for audio. The red audio cable is for the stereo right channel; the white audio cable is for the stereo (or mono) left channel. If you look at the rear panel of the TV, you will see that the terminals are color coded in the same manner as the cables.
- S-video cables provide better picture performance. S-video cables can be used only with S-video compatible components.
- ColorStream™ cables come in sets of three and provide the best picture performance. ColorStream cables can be used only with ColorStream compatible components.



Caution:

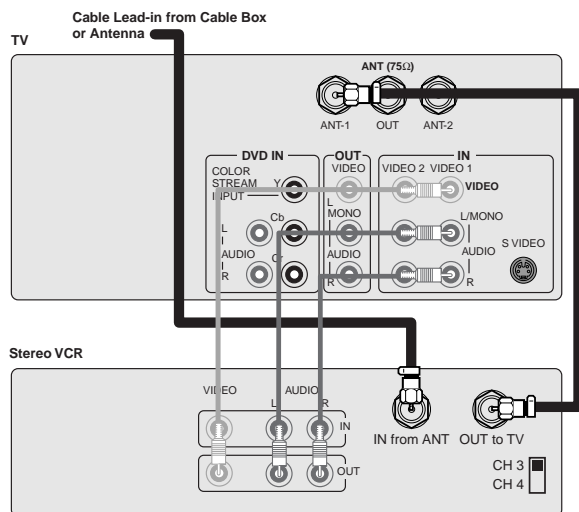
Do not plug in the TV power cord until you have finished connecting all of your equipment.

Connecting a VCR

This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and record from one channel while watching another channel.

You will need:

- one coaxial cable
- one pair of audio cables (only one cable for a mono VCR)
- one video cable



Caution:

If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have an S-VHS VCR, use the S-video connections and omit the video cable.

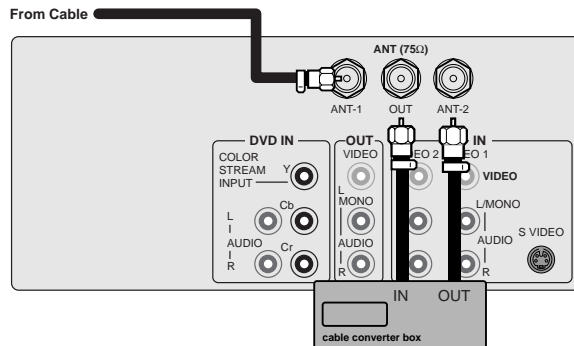
Do not connect the video cable and the S-video cable to Video-1 simultaneously.

Connecting a cable converter box

This connection allows you to watch cable and premium channels. To use the TV features (such as PIP swap, Channel \blacktriangle \blacktriangledown , channel block, favorite channels, or channel labels), select ANT-1. To view premium channels, select ANT-2, tune the TV to channel 3 or 4 (whichever channel is vacant in your area), and use the converter box to change channels.

You will need:

- two coaxial cables



Note:

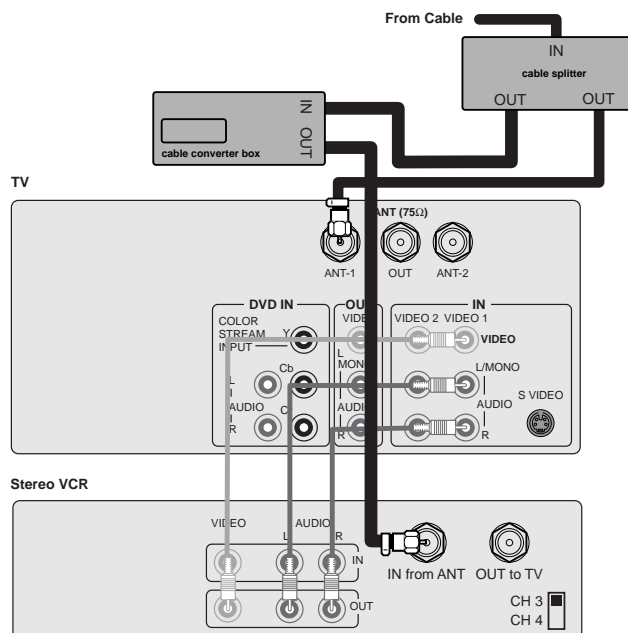
When you use a converter box with your TV, there may be features you will not be able to program using the remote control, such as PIP swap, Channel \blacktriangle \blacktriangledown , channel block, favorite channels, or channel labels.

Connecting a cable converter box and VCR

This connection allows you to watch and record basic and premium cable channels, as well as watch videotapes. Change the TV to Video mode. Tune the VCR to channel 3 or 4 (the same channel as the converter box output switch). Use the cable converter box to change channels. Set the PIP source to TV mode (see page 24).

You will need:

- three coaxial cables
- one pair of audio cables (one single cable for a mono VCR)
- one video cable
- one cable splitter



Note:

If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have an S-VHS VCR, use the S-video connections and omit the video cable.

Caution:

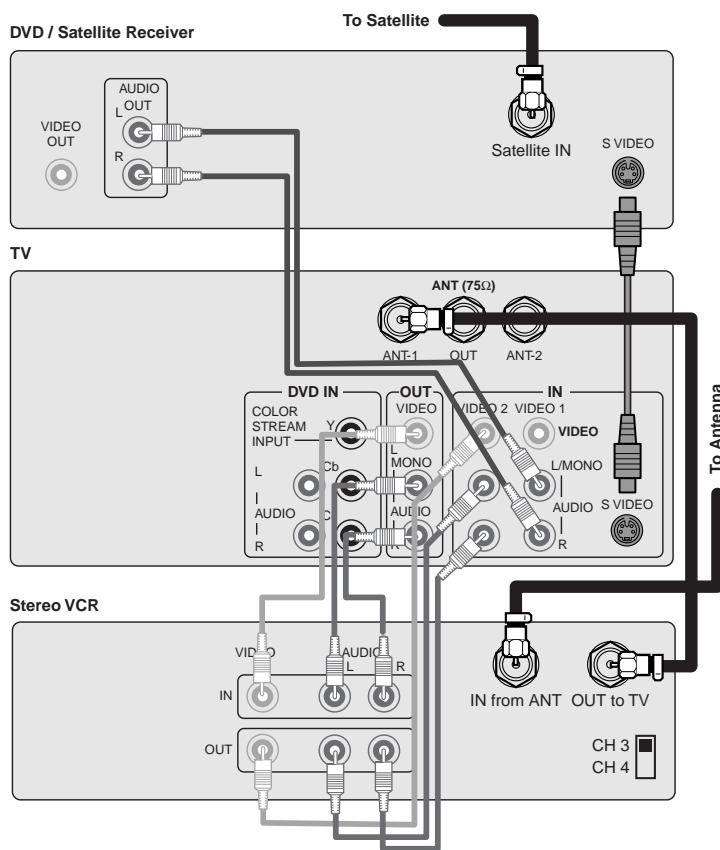
Do not connect the video cable and the S-video cable to Video-1 simultaneously.

Connecting a DVD/satellite receiver and VCR

This connection allows you to watch DVD/satellite, video, or TV programs. You can record from the DVD/satellite receiver and TV, as well as record one TV channel while watching another channel.

You will need:

- one coaxial cable
- three pairs of audio cables (one pair and two single cables for a mono VCR)
- two video cables
- one S-video cable



Note:

You can use a video cable instead of the S-video cable, but the picture quality will decrease.

If you use an S-video cable between the TV and DVD/satellite receiver, make the audio connections only and omit the video connection.

Caution:

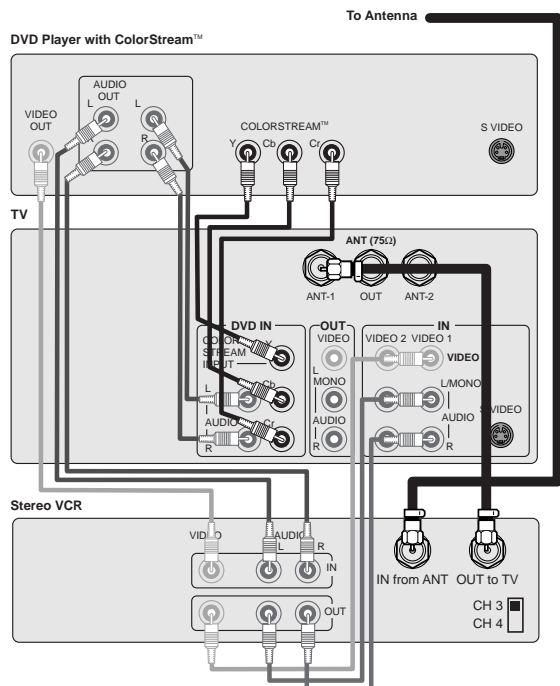
Do not connect the video cable and the S-video cable to Video-1 simultaneously.

Connecting a DVD with ColorStream™ and a VCR

This connection allows you to watch DVD, video, or TV programs, and record DVD or TV programs. You can record from one source and watch a program from another source. Your TV is capable of using ColorStream (color difference). Connecting your TV to a ColorStream compatible DVD, such as a Toshiba DVD, can greatly enhance picture quality and performance.

You will need:

- one coaxial cable
- three pairs of audio cables (one pair and two single cables for a mono VCR)
- two video cables
- one set of ColorStream video cables



Note:

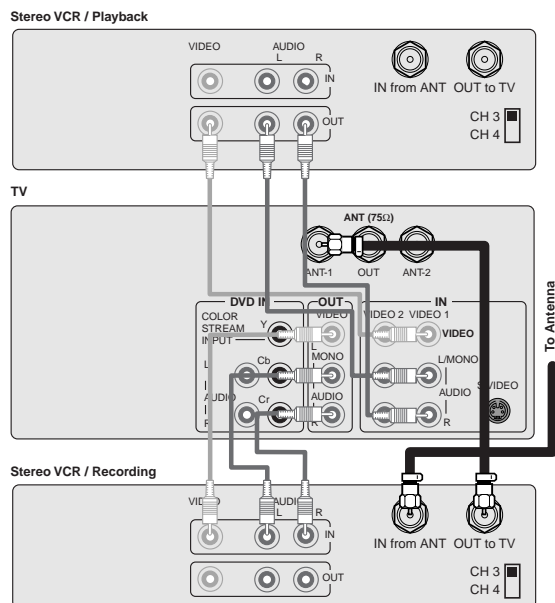
To play from the DVD, the DVD and TV must use ColorStream connections. To record from the DVD, the DVD and TV must select Video.

Connecting two VCRs

This connection allows you to record from one VCR to another VCR while watching a video program. You also will be able to record from one TV channel while watching another channel.

You will need:

- one coaxial cable
- two pairs of audio cables (two single cables for mono VCRs)
- two video cables



Note:

If you are using an S-VHS VCR, use the S-video connections and omit the video cable.

Caution:

Do not connect one VCR to the output and input jacks on the TV at the same time.

Do not connect the video cable and the S-video cable to Video-1 simultaneously.

Connecting a camcorder

This connection allows you to watch videos recorded on a camcorder.

You will need:

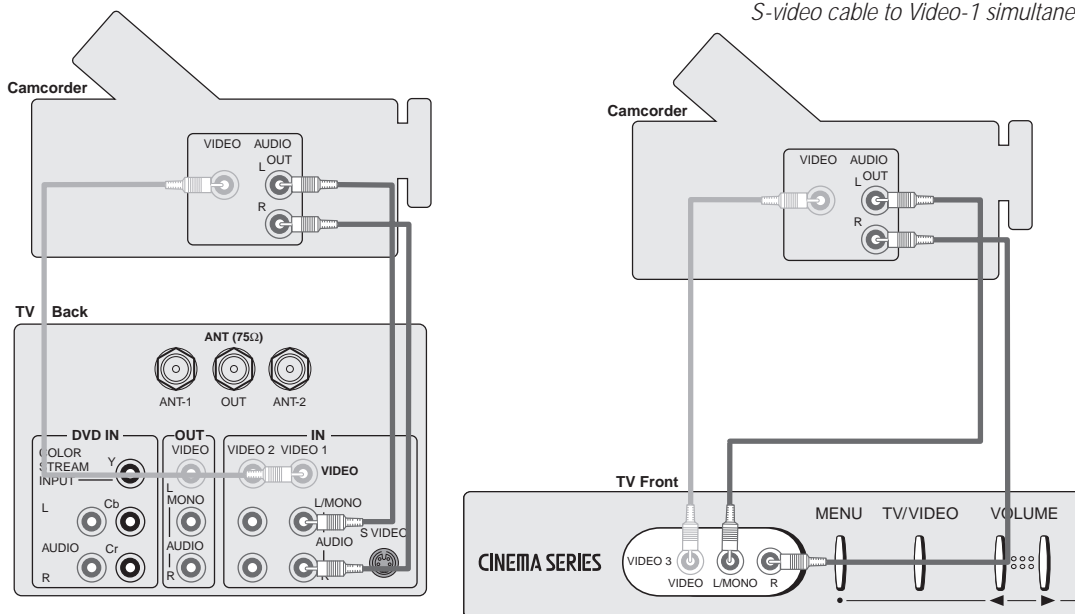
- one pair of audio cables
- one video cable

Note:

If you are using an S-VHS camcorder with an S-video output, connect this to the S-video input on the TV and omit the video cable.

Caution:

Do not connect the video cable and the S-video cable to Video-1 simultaneously.



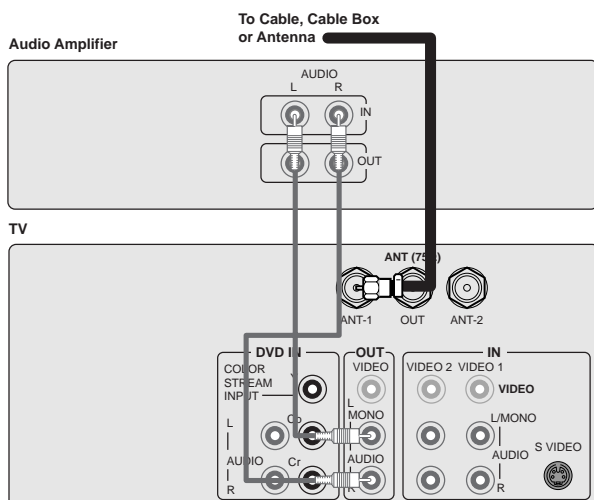
Connecting an audio amplifier

This connection allows you to use an audio amplifier to adjust the audio level. This connection also allows you to use external speakers.

To control the audio, turn on the TV and the stereo amplifier.

You will need:

- one pair of audio cables



Using the remote control

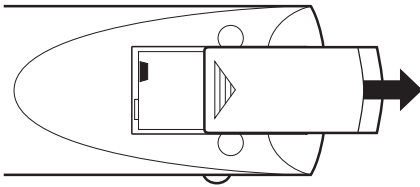
Preparing the remote control for use

The remote control will operate your TV, most VCR models, and most cable TV converters together, even if they are different brands. If you will be using your TV with a Toshiba VCR, your remote control is already programmed and ready to use. If you own different brands of VCRs and/or converters, you will need to program your remote control (see "Programming the remote control for use with a VCR or cable TV converter" on page 8).

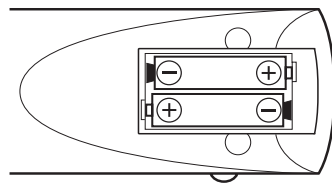
Installing the remote control batteries

To install the batteries:

1. Slide the battery cover off the back of the remote control.



2. Install two "AA" size batteries. Match the + and – symbols on the batteries to the symbols on the battery compartment.



3. Slide the battery cover back onto the remote control until the lock snaps.

Using the remote control with a VCR or cable TV converter

To control a Toshiba VCR:

Set the TV/CABLE/VCR switch to the VCR position. The shaded buttons in the illustration at right will then control the VCR. The unshaded buttons will operate the TV as usual.

To control a cable TV converter:

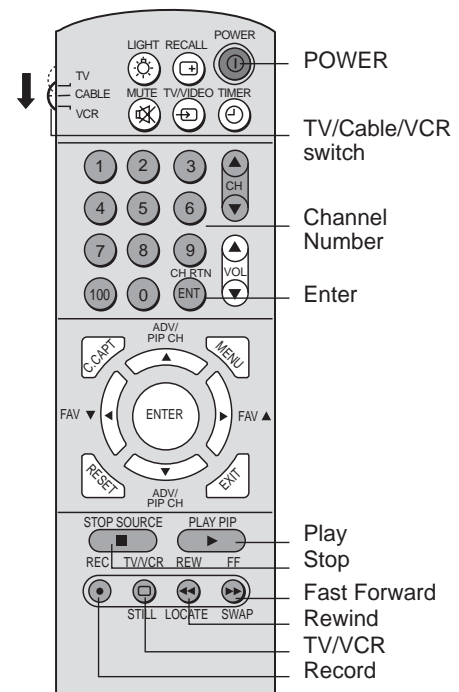
Program the remote control to recognize the brand of your converter (see "Programming the remote control for use with a VCR or cable TV converter" on page 8). Set the TV/CABLE/VCR switch to the CABLE position. The shaded buttons in the top portion of the illustration at right will then control the cable TV converter.

Note:

The remote control provided with your TV may or may not operate certain features on your VCR, cable TV converter, or other electronic components. Refer to the owner's manuals provided with your other components to see which features are available. In addition, the other remote controls may have buttons not available on your TV's remote control. If you would like to use those features or buttons, you may need to use the original remote controls for your other components.

Caution:

- Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.
- Do not mix battery types or combine used batteries with new ones.
- Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
- If you do not intend to use the remote control for a long time, remove the batteries.



Programming the remote control for use with a VCR or cable TV converter

The remote control provided with your Toshiba TV is preprogrammed to operate Toshiba VCRs also.

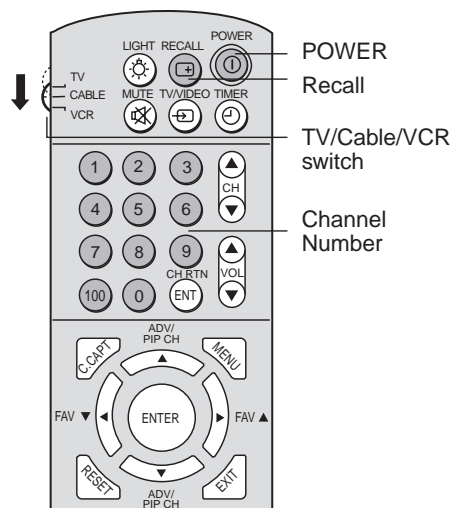
To operate non-Toshiba components using the remote control provided with your TV:

1. Refer to the VCR and cable TV converter code table below to find the corresponding code for your VCR or cable TV converter brand.
If more than one code is listed, try each one separately until you find the one that works.
2. If you are reprogramming the remote control to operate your:
 - **VCR:** Set the TV/CABLE/VCR switch on the remote control to VCR.
 - **Cable TV converter:** Set the TV/CABLE/VCR switch on the remote control to CABLE.
3. Hold down the RECALL button while using the Channel Number buttons to enter the three-digit code of your VCR or cable TV converter brand.
4. Point the remote control at the VCR or converter and press POWER to test the code.
 - If the VCR or converter turns on, you have entered the correct code.
 - If the VCR or converter does not respond to the remote control, you may have entered the incorrect code. Repeat steps 1–4 using another code.
5. Reset the TV/CABLE/VCR switch to TV to control the TV.

For future reference, write down the codes you used:

VCR code _____

Cable TV converter code _____



Note:

- Every time you replace the batteries, you will need to reprogram the remote control.
- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled "VCR1/VCR2." If your VCR has this kind of switch, it may not respond to any of the codes for your VCR brand. In this case, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

VCR code table

Brand	Code				
Adventura	019	CCE	091, 297	Fisher	066, 073, 085, 123
Aiko	297	Citizen	056, 297	Fuji	052, 054
Aiwa	019	Colt	091	Funai	019, 344
Akai	060, 068, 080, 125, 261	Craig	056, 066, 091, 259	Garrard	019, 344
American High	054	Curtis Mathes	054, 060, 079	GE	054, 079, 084, 221
Asha	259	Cybernex	259	Go Video	251, 298
Audiovox	056	Daewoo	039, 064, 297	Goldstar	037, 056, 057
Beaumark	259	Daytron	039	Gradiente	019
Bell & Howell	123	Dynatech	019	Harley Davidson	019
Brandt	206	Electrohome	056	Harman/Kardon	057, 094
Broksonic	140, 203, 230, 314, 380	Electrohome	056	Harwood	087, 091
Calix	056	Emerex	051	Headquarter	065
Canon	054	Emerson	019, 021, 056, 062, 080, 087, 140, 203, 227, 228, 230, 231, 297, 313, 314, 380, 498	HI-Q	066
Capehart	039			Hitachi	060, 061, 084, 124, 185, 254
Carver	100			Jensen	060
				JVC	027, 060, 086
				Kenwood	057, 060, 086

VCR code table (cont.)

Brand	Code	Brand	Code	Brand	Code
KLH	091	Sanky	058, 067	Garrard	172
Kodak	054, 056	Sansui	060, 086	CG Electronics	075
Lloyd	019, 227	Sanyo	065, 066, 123, 259	Gemini	034, 089
Logik	091	Scott	062, 064, 140, 203, 229, 230, 231	General Instrument	030, 295
LXI	056	Sears	054, 056, 061, 065, 066, 073, 085, 123, 124	Gold Star	059, 163
Magnavox	054, 058, 100, 129, 168	Sharp	067, 081	Hamlin	028, 039, 053, 278, 292
Magnin	259	Shintom	091	Hitachi	030
Marantz	054, 100	Shogun	259	Hytex	026
Marta	056	Singer	091	Jasco	172
Matsushita	054	Sony	051, 052, 053, 054	Jerrold	022, 030, 031, 033, 034, 066, 295
MEI	054	STS	061	Macom	052
Memorex	019, 054, 056, 058, 065, 066, 067, 123, 259	Sylvania	019, 054, 062, 100, 129	Magnavox	046
MGA	062, 080	Symphonic	019, 344	Memorex	019
MGN Technology	259	Tatung	060	Movietime	175
Minolta	061, 124	Teac	019, 060	NSC	089, 175
Mitsubishi	062, 080, 086, 094, 192, 233, 261	Technics	054, 181	Oak	026, 038, 267
Motorola	054, 067	Teknika	019, 054, 056, 071	Panasonic	019, 040, 126
MTC	019, 259	Telefunken	206	Paragon	019
Multitech	019, 091	TMK	227, 259	Philips	044, 046, 047, 048, 049, 050, 172
NAD	077	Toshiba	062, 064, 085, 229, 231, 385	Pioneer	042, 163, 552
NEC	057, 059, 060, 069, 086	Totevision	056, 259	Popular Mechanics	419
Nikko	056	Unitech	259	Pulsar	019
Noblex	259	Vector	064	RCA	040
Olympus	054	Vector Research	057, 059	Regal	039, 278, 292
Optimus	056, 067, 077, 123	Video Concepts	059, 064, 080	Recoton	419
Optonica	081	Videosonic	259	Regency	021
Orion	498	Wards	019, 054, 061, 066, 067, 081, 091, 168, 231, 259	Rembrandt	030, 089
Panasonic	054, 096, 181, 244, 473	XR-1000	019, 054, 091	Runco	019
Penney	054, 056, 057, 059, 061, 073, 259	Yamaha	057	Samsung	059, 163
Pentax	061, 084, 124	Zenith	052, 053, 058	Scientific Atlanta	025, 027, 036, 296
Philco	054			Signal	034, 059
Philips	054, 081, 100, 129			Signature	030
Pilot	056			SL Marx	059
Pioneer	077, 086			Sprucer	040
Portland	039			Standard	
Protec	091			Components	174
Pulsar	058			Starcom	022, 034, 066
Quarter	065			Stargate	034, 059
Quartz	065			Starquest	034
Quasar	054, 096			Sylvania	020
Radio Shack	019, 056, 344			Teleview	059
Radix	056			Texscan	020
Randex	056			Tocom	031, 032, 078
RCA	061, 079, 084, 096, 124, 125, 168, 221			Toshiba	019
Realistic	019, 054, 056, 065, 066, 067, 081, 085, 123, 259			Tusa	034
Ricoh	053			Unika	041, 172
Runco	058			United Artists	026
Samsung	064, 259			United Cable	022
				Universal	041, 058, 075, 096, 172, 210
				Viewstar	046, 079, 230
				Zenith	019
				Zentek	419

Cable TV converter code table

Brand	Code
ABC	020, 022, 027, 030, 032, 033, 036, 066
Antronix	041
Archer	041, 058, 172
Belcor	075
Cable Star	075
Cabletenna	041
Cableview	041
Century	172
Citizen	172
Colour Voice	044, 050
Comtronics	059, 079
Contec	038
Dae Ryung	027
Eastern	021
Focus	419

Welcome to
Toshiba

Connecting
your TV

Using the
Remote Control

Setting up
your TV

Using the TV's
Features

Appendix

Index

Learning about the remote control

POWER turns the TV on and off (page 8)

TV/VIDEO selects input source (page 12)

Channel ▲ ▼ cycles through programmed channels (page 12)

TV/Cable/VCR switch switches between TV, Cable, and VCR (page 7)

Channel Numbers allow direct access to channels (page 13)

Volume ▲ ▼ adjusts the volume level (page 29)

Channel Return returns to the last viewed channel (page 13)

MENU allows access to programming menus (page 11)

Favorite Channels ▲ ▼ cycles through channels programmed as favorite channels (page 14)

ENTER sets programmed menu information (page 13)

EXIT exits programming menus (page 11)

PIP Buttons allow access to PIP functions (pages 24–25)

STILL freezes the small PIP

SOURCE selects the PIP input source

PIP selects the picture-in-picture (PIP) mode

PIP CH ▲ ▼ changes the small PIP channel

LOCATE changes the position of the small PIP

SWAP switches the main picture and small PIP

STOP stops a videotape

REC starts recording a videotape

PLAY plays a videotape

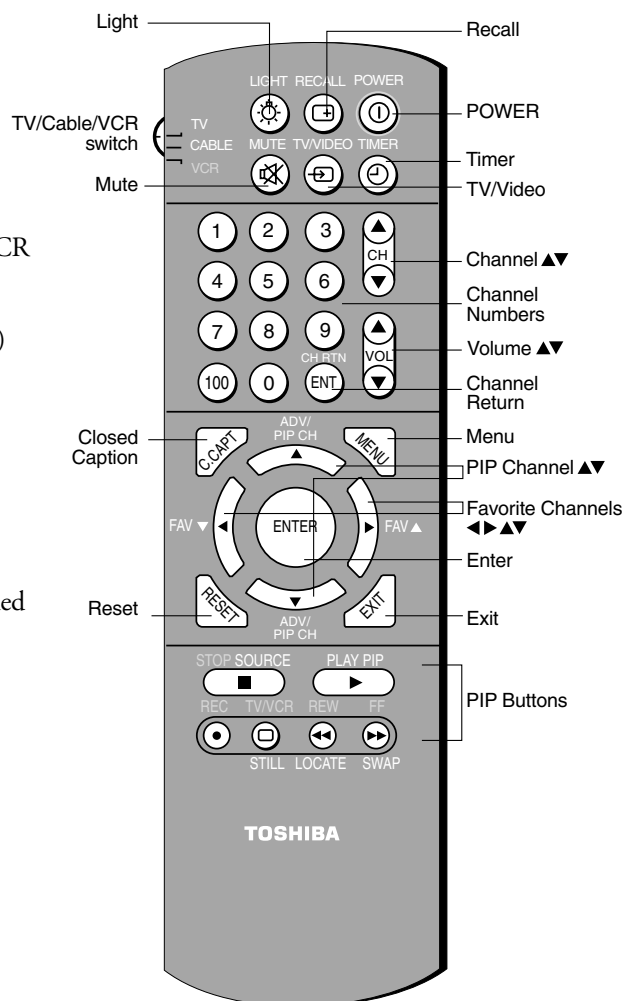
FF fast forwards a videotape

REW rewinds a videotape

TV/VCR toggles between TV and VCR when viewing while recording

MUTE mutes the sound (page 29)

RECALL displays on-screen information (page 27)



Setting up your TV

After you have installed the batteries and programmed the remote control, you will need to use the menu to set some preferences on your TV. You can access the menu using the buttons on your TV or remote control.

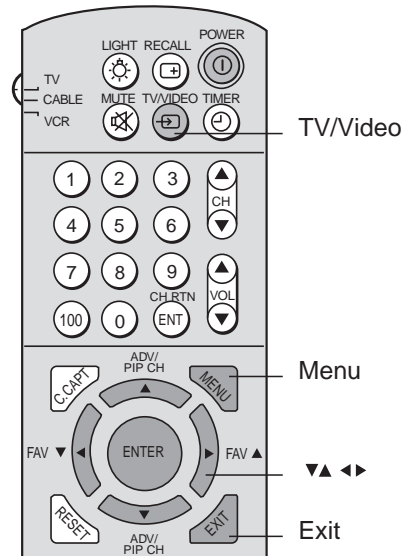
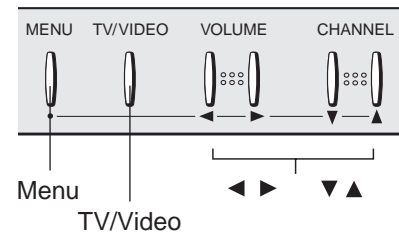
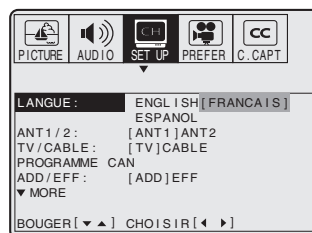
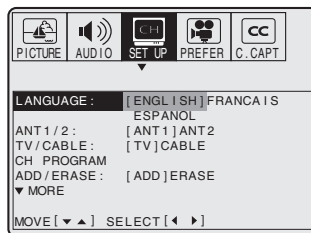
- When you make a menu selection, your changes occur immediately. You do not have to press MENU or EXIT to save your changes.
- When you are finished programming the menus, you can press EXIT to clear the on-screen display, or wait 15 seconds and the on-screen display will disappear automatically. Your changes are automatically saved either way.

Changing the on-screen display language

You can choose from three different languages (English, French, and Spanish) for the on-screen displays. Menus and messages will appear in the language you select.

To select an on-screen display language:

1. Press MENU.
2. Press ◀ or ▶ until the SET UP menu appears.
3. Press ▲ or ▼ to highlight LANGUAGE.
4. Press ◀ or ▶ to highlight your desired language.

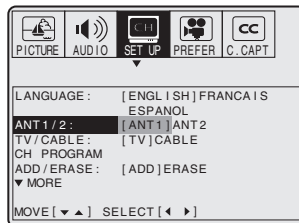


Selecting the antenna input

You can connect to one of two different antenna input sources using the antenna input (ANT 1 or ANT 2).

To select the antenna input:

1. Press MENU.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight ANT 1/2.
4. Press ◀ or ▶ to highlight either ANT 1 or ANT 2, depending on the antenna terminal you wish to use.

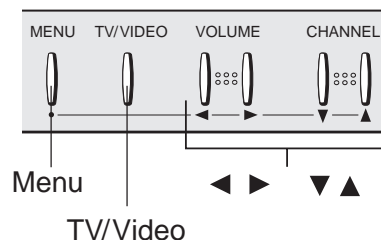
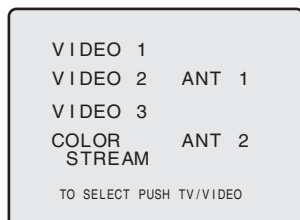


Using the TV/VIDEO button on the TV

Use the TV/VIDEO button on the TV to monitor or change the signal source connected to your TV.

To select the signal source:

Press the TV/VIDEO button on the TV to select either VIDEO 1, VIDEO 2, VIDEO 3, ColorStream, ANT 1, or ANT 2. Repeatedly press the TV/VIDEO button on the TV until the signal source you wish to use displays in purple.



Adding channels to the TV's memory

When you press Channel ▲ or ▼ on the TV or remote control, the TV stops only on the channels stored in the TV's memory.

Note: To tune the TV to a channel not programmed in the TV's memory, use the Channel Number buttons on the remote control.

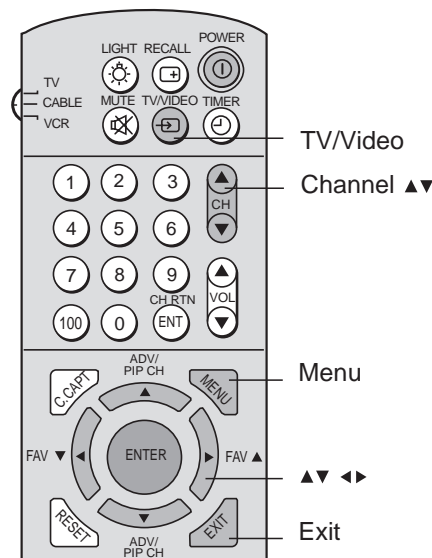
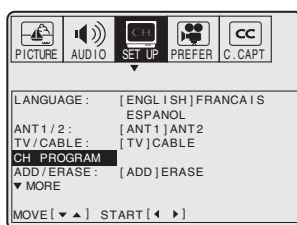
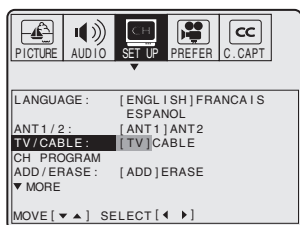
Follow the steps below and on the next page to program channels into the TV's memory.

Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in the TV's memory. After the channels are stored automatically, you can manually add or erase individual channels (see page 13). If you use both ANT-1 and ANT-2 terminals, you will need to program channels for each input source.

To program channels automatically:

1. Press MENU.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight TV/CABLE.
4. Press ◀ or ▶ to highlight either TV or CABLE, depending on which you use. If you use an antenna, highlight TV. If you use cable, highlight CABLE.
5. Press ▼ to highlight CH PROGRAM.



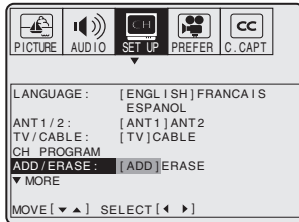
6. Press ◀ or ▶ to start automatic channel programming. The TV automatically cycles through every TV or cable channel (depending on which you selected), and stores all active channels in the TV's memory.
7. When automatic channel programming is complete, the message "CH Programming Completed" appears.
8. Press Channel ▲ or ▼ to view the programmed channels.

Adding and erasing channels manually

After you have automatically programmed the channels into the TV's memory, you can manually add and erase individual channels.

To add a channel to or erase a channel from the TV's memory:

1. Tune the TV to the channel you want to add or erase. If you are adding a channel, you will need to use the Channel Number buttons to select the channel.
2. Press MENU.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight ADD/ERASE.



5. Press ◀ or ▶ to highlight ADD or ERASE, whichever function you want to perform.
6. Press ENTER.
7. Press EXIT to return to normal TV viewing.
8. Repeat steps 1–7 for other channels you want to add or erase.

Changing channels

To change to the next programmed channel:

Press Channel ▲ or ▼ on the TV, or CH ▲ or ▼ on the remote control.

To change to a specific channel (programmed or unprogrammed):

Press the Channel Number buttons (0–9 and 100). **Note:** For channels 100 and higher, press the 100 button, then the next two channel numbers (for example, to select channel 100, press 100–0–0; to select channel 125, press 100–2–5).

Using the TV's features

Adjusting the channel settings

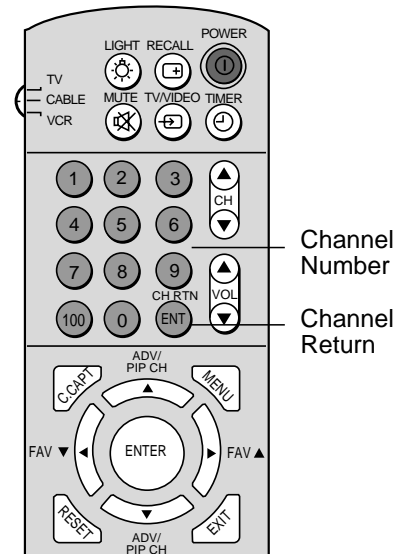
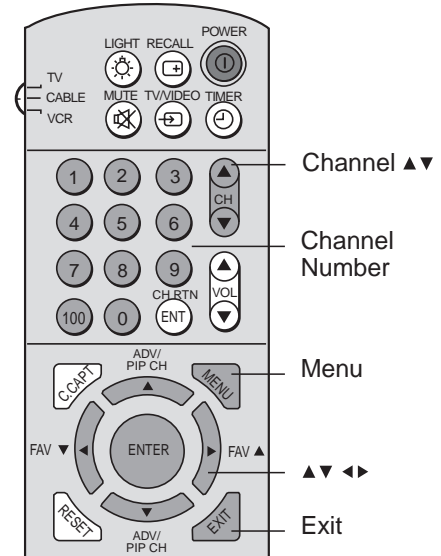
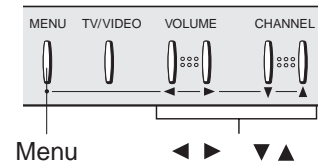
Switching between two channels

You can switch between two channels without entering an actual channel number each time.

To switch between two channels:

1. Select the first channel you want to view.
2. Select a second channel using the Channel Number buttons (0–9 and 100).
3. Press CH RTN. The previous channel will display.

Every time you press CH RTN, the TV will switch back and forth between the last two channels you tuned the TV to.



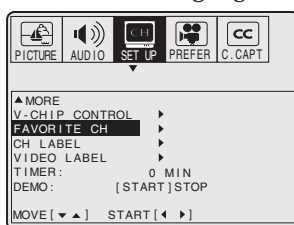
Programming your favorite channels

The Favorite Channel feature allows you to use the FAV ▲▼ buttons on the remote control to cycle through your favorite channels and skip over channels you do not normally watch. You can program a maximum of 12 favorite channels.

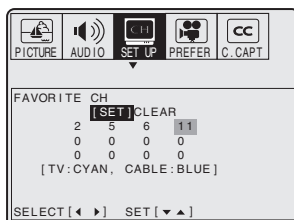
Note: You can still use Channel ▲▼ to cycle through all the channels you programmed into the TV's memory.

To program your favorite channels:

1. Tune the TV to a channel you want to program as a favorite channel.
2. Press MENU.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight FAVORITE CH.



5. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.
6. Press ◀ or ▶ to highlight SET.
7. Press ▼ to add the current channel to the list.
8. Press ENTER.



9. Press EXIT to close the on-screen display.
10. Repeat steps 1–9 for a maximum of 12 channels.

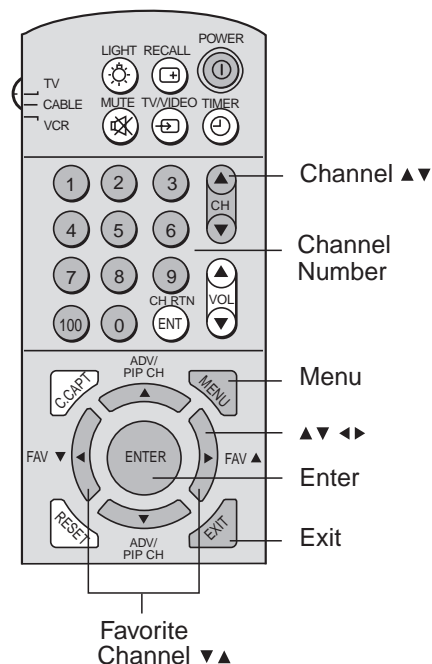
To select your favorite channels:

Press FAV ▲ or ▼ on the remote control to cycle through the favorite channels you programmed.

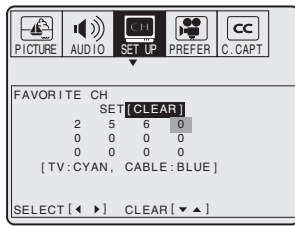
Note: The Favorite Channel feature will not work unless you program at least one favorite channel.

To clear a favorite channel:

1. Tune the TV to the channel you want to clear from your favorite channel list.
2. Press MENU.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight FAVORITE CH.



- Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.
- Press ◀ or ▶ to highlight CLEAR.



- Press ▼, which clears the current channel number from the list.
- Press ENTER.
- Press EXIT to close the on-screen display.
- Repeat steps 1–9 for other channels you want to clear from your favorite channel list.

Using the V-Chip

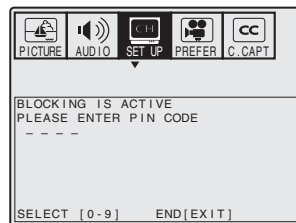
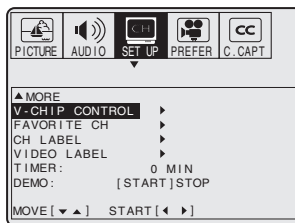
You can use the V-Chip feature to block certain programs or channels, thereby preventing others from viewing them.

Selecting a PIN code

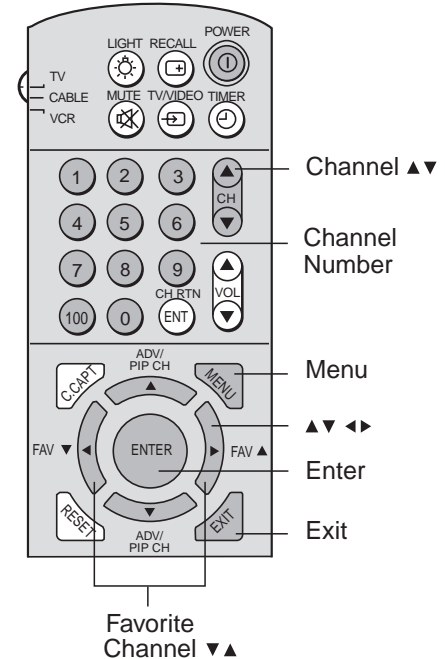
Before you can block programs and channels, you need to select a personal identification number (PIN) code. The PIN code you select allows you to access the V-Chip menu and prevents others from changing the rating and blocking limits you set.

To select your PIN code and access the V-Chip menu:

- Press MENU.
- Press ◀ or ▶ to highlight the SET UP menu.
- Press ▲ or ▼ to highlight V-CHIP CONTROL.
- Press ◀ or ▶ to display the Enter PIN Code screen.

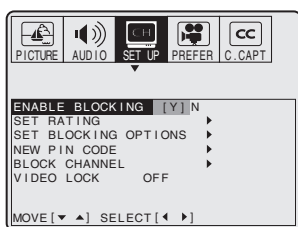


- Use the Channel Number buttons (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, select a four-digit number to be your PIN code. After the code is entered, the V-Chip Control menu appears.
- Press ▲ or ▼ to highlight ENABLE BLOCKING.



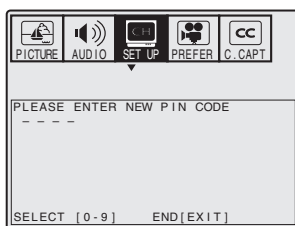
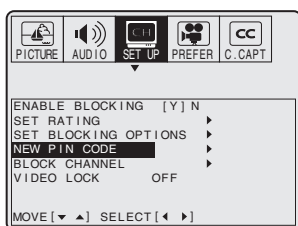
- Press ◀ or ▶ to highlight “Y,” which enables all blocking by activating the V-Chip. See “Blocking programs by ratings” on page 17, “Blocking unrated movies or programs” on page 19, and “Blocking channels” on page 20.

(**Note:** Highlight “N” to deactivate the V-Chip and disable blocking.)



To change your PIN code:

- Press MENU.
- Press ◀ or ▶ to highlight the SET UP menu.
- Press ▲ or ▼ to highlight V-CHIP CONTROL.
- Press ◀ or ▶ to display the Enter PIN Code screen.
- Use the Channel Number buttons (0–9) to enter your existing PIN code. After the code is entered, the V-Chip Control menu appears.
- Press ▲ or ▼ to highlight NEW PIN CODE.
- Press ◀ or ▶ to display the New PIN Code screen.



- Use the Channel Number buttons (0–9) to enter a new code. After the new code is entered, the V-Chip Control menu appears.
- Press EXIT to return to normal TV viewing.

Note:

If you forget your PIN code, follow steps 1–4 under “To change your PIN code” at left, then press **RECALL** four times within five seconds. This allows you to proceed to the V-Chip Control menu and reset your PIN code.

